

Implementing Universal Service After the 1996 Telecommunications Act

- What is the boundary between universal service and the broad duties entailed by the common carrier tradition? More specifically, are there activities or services that inhere in being a carrier and which should be simply assessed as a cost of doing business?

The group agreed that the following matrix offered a fair organization of the issues that need to be addressed, without agreeing how to fill in every cell:

	Service to individuals meriting coverage by universal service	Service to places meriting coverage by universal service (communities or other geographic designations)	Service to institutions meriting coverage by universal service (libraries and schools)
Services offered			
Cost of providing included services			
Competitively neutral mechanisms for support			
Evolution toward higher service levels			
Eligibility for universal service aid			
Provider eligibility for subsidies			

Appendix 2

Issues for a Further Meeting on Education and Universal Service

The proposal in the Report of the Eleventh Annual Aspen Conference on Telecommunications Policy suggests an innovative way to think about universal service for schools and libraries. It tries to combine Congress' intent to use competition where possible to promote its goals for an advanced telecommunications system, while at the same time, assure connectivity of schools, libraries and health care facilities under the provisions of the universal service section in the Telecommunications Act of 1996. Still, many questions remain that the participants at that conference did not have the time to delve into in detail or to resolve. A further meeting on this issue might address:

a) *Trends in Schools.* One of the issues raised by discussants at the August conference is the need to understand and have an accurate picture of current trends in telecommunications services in schools and libraries—that is the technologies schools and libraries are actually using and would like to use to enhance and improve education. What do schools use, need, want, and find effective?

b) *Affordability Zones.* There is a need to craft a universal service support mechanism that not only subsidizes those schools and libraries that truly need them (or, as stated in the draft report, “to consider the relative ability of each institution to purchase services”), but also ensures that any universal service support mechanism works to address the real issues and needs of information “haves” and “have nots.” The idea of “affordability zones” is one way to achieve these twin goals, but more detail needs to be established and provided. What are the relative merits of various statistical approaches and/or data sets that could be used to determine “affordability”? What should be the actual size of those subsidies? Should they be sliding or stepped?

c) *Consideration of Various Other Proposals and Plans.* Many companies, organizations, and other entities have universal service and education proposals. What are the parts of each plan that correspond to agreed upon goals and principles? How can they be achieved? What are the common areas of consensus or agreement, the areas of significant disagreement, and the areas in need of further study?

Appendix 3

Relevant Sections of the Telecommunications Act of 1996

During the course of the conference, participants referred to several sections of the Telecommunications Act of 1996 with direct implications for universal service. These sections are reproduced here for the reader's convenience. The text is taken from the Conference Report of the U.S. Congress dated January 31, 1996 (Report 104-458). This is not meant to be a complete compilation of all sections that relate to universal service, but of those sections that are relevant to the discussions summarized in this report.

Section 251. Interconnection.

Section 252. Procedures for Negotiation, Arbitration, and Approval of Agreements.

Section 254. Universal Service.

Section 706. Advanced Telecommunications Incentives.

Section 708. National Education Technology Funding Corporation.

104TH CONGRESS }
2d Session }

HOUSE OF REPRESENTATIVES

{ REPORT
104-458

TELECOMMUNICATIONS ACT OF 1996

* * *

"SEC. 251. INTERCONNECTION.

"(a) GENERAL DUTY OF TELECOMMUNICATIONS CARRIERS.—
Each telecommunications carrier has the duty—

"(1) to interconnect directly or indirectly with the facilities and equipment of other telecommunications carriers; and

"(2) not to install network features, functions, or capabilities that do not comply with the guidelines and standards established pursuant to section 255 or 256.

"(b) OBLIGATIONS OF ALL LOCAL EXCHANGE CARRIERS.—Each local exchange carrier has the following duties:

"(1) RESALE.—The duty not to prohibit, and not to impose unreasonable or discriminatory conditions or limitations on, the resale of its telecommunications services.

"(2) NUMBER PORTABILITY.—The duty to provide, to the extent technically feasible, number portability in accordance with requirements prescribed by the Commission.

"(3) DIALING PARITY.—The duty to provide dialing parity to competing providers of telephone exchange service and telephone toll service, and the duty to permit all such providers to have nondiscriminatory access to telephone numbers, operator services, directory assistance, and directory listing, with no unreasonable dialing delays.

"(4) ACCESS TO RIGHTS-OF-WAY.—The duty to afford access to the poles, ducts, conduits, and rights-of-way of such carrier to competing providers of telecommunications services on rates, terms, and conditions that are consistent with section 224.

"(5) RECIPROCAL COMPENSATION.—The duty to establish reciprocal compensation arrangements for the transport and termination of telecommunications.

"(c) ADDITIONAL OBLIGATIONS OF INCUMBENT LOCAL EXCHANGE CARRIERS.—In addition to the duties contained in subsection (b), each incumbent local exchange carrier has the following duties:

"(1) DUTY TO NEGOTIATE.—The duty to negotiate in good faith in accordance with section 252 the particular terms and conditions of agreements to fulfill the duties described in paragraphs (1) through (5) of subsection (b) and this subsection. The requesting telecommunications carrier also has the duty to negotiate in good faith the terms and conditions of such agreements.

"(2) INTERCONNECTION.—The duty to provide, for the facilities and equipment of any requesting telecommunications carrier, interconnection with the local exchange carrier's network—

"(A) for the transmission and routing of telephone exchange service and exchange access;

"(B) at any technically feasible point within the carrier's network;

"(C) that is at least equal in quality to that provided by the local exchange carrier to itself or to any subsidiary, affiliate, or any other party to which the carrier provides interconnection; and

"(D) on rates, terms, and conditions that are just, reasonable, and nondiscriminatory, in accordance with the terms and conditions of the agreement and the requirements of this section and section 252.

"(3) UNBUNDLED ACCESS.—The duty to provide, to any requesting telecommunications carrier for the provision of a telecommunications service, nondiscriminatory access to network elements on an unbundled basis at any technically feasible point on rates, terms, and conditions that are just, reasonable, and nondiscriminatory in accordance with the terms and conditions of the agreement and the requirements of this section and section 252. An incumbent local exchange carrier shall provide such unbundled network elements in a manner that allows requesting carriers to combine such elements in order to provide such telecommunications service.

"(4) RESALE.—The duty—

"(A) to offer for resale at wholesale rates any telecommunications service that the carrier provides at retail to subscribers who are not telecommunications carriers; and

"(B) not to prohibit, and not to impose unreasonable or discriminatory conditions or limitations on, the resale of such telecommunications service, except that a State commission may, consistent with regulations prescribed by the Commission under this section, prohibit a reseller that obtains at wholesale rates a telecommunications service that is available at retail only to a category of subscribers from offering such service to a different category of subscribers.

"(5) NOTICE OF CHANGES.—The duty to provide reasonable public notice of changes in the information necessary for the transmission and routing of services using that local exchange carrier's facilities or networks, as well as of any other changes that would affect the interoperability of those facilities and networks.

"(6) **COLLOCATION.**—The duty to provide, on rates, terms, and conditions that are just, reasonable, and nondiscriminatory, for physical collocation of equipment necessary for interconnection or access to unbundled network elements at the premises of the local exchange carrier, except that the carrier may provide for virtual collocation if the local exchange carrier demonstrates to the State commission that physical collocation is not practical for technical reasons or because of space limitations.

"(d) **IMPLEMENTATION.**—

"(1) **IN GENERAL.**—Within 6 months after the date of enactment of the Telecommunications Act of 1996, the Commission shall complete all actions necessary to establish regulations to implement the requirements of this section.

"(2) **ACCESS STANDARDS.**—In determining what network elements should be made available for purposes of subsection (c)(3), the Commission shall consider, at a minimum, whether—

"(A) access to such network elements as are proprietary in nature is necessary; and

"(B) the failure to provide access to such network elements would impair the ability of the telecommunications carrier seeking access to provide the services that it seeks to offer.

"(3) **PRESERVATION OF STATE ACCESS REGULATIONS.**—In prescribing and enforcing regulations to implement the requirements of this section, the Commission shall not preclude the enforcement of any regulation, order, or policy of a State commission that—

"(A) establishes access and interconnection obligations of local exchange carriers;

"(B) is consistent with the requirements of this section; and

"(C) does not substantially prevent implementation of the requirements of this section and the purposes of this part.

"(e) **NUMBERING ADMINISTRATION.**—

"(1) **COMMISSION AUTHORITY AND JURISDICTION.**—The Commission shall create or designate one or more impartial entities to administer telecommunications numbering and to make such numbers available on an equitable basis. The Commission shall have exclusive jurisdiction over those portions of the North American Numbering Plan that pertain to the United States. Nothing in this paragraph shall preclude the Commission from delegating to State commissions or other entities all or any portion of such jurisdiction.

"(2) **COSTS.**—The cost of establishing telecommunications numbering administration arrangements and number portability shall be borne by all telecommunications carriers on a competitively neutral basis as determined by the Commission.

"(f) **EXEMPTIONS, SUSPENSIONS, AND MODIFICATIONS.**—

"(1) EXEMPTION FOR CERTAIN RURAL TELEPHONE COMPANIES.—

"(A) EXEMPTION.—Subsection (c) of this section shall not apply to a rural telephone company until (i) such company has received a bona fide request for interconnection, services, or network elements, and (ii) the State commission determines (under subparagraph (B)) that such request is not unduly economically burdensome, is technically feasible, and is consistent with section 254 (other than subsections (b)(7) and (c)(1)(D) thereof).

"(B) STATE TERMINATION OF EXEMPTION AND IMPLEMENTATION SCHEDULE.—The party making a bona fide request of a rural telephone company for interconnection, services, or network elements shall submit a notice of its request to the State commission. The State commission shall conduct an inquiry for the purpose of determining whether to terminate the exemption under subparagraph (A). Within 120 days after the State commission receives notice of the request, the State commission shall terminate the exemption if the request is not unduly economically burdensome, is technically feasible, and is consistent with section 254 (other than subsections (b)(7) and (c)(1)(D) thereof). Upon termination of the exemption, a State commission shall establish an implementation schedule for compliance with the request that is consistent in time and manner with Commission regulations.

"(C) LIMITATION ON EXEMPTION.—The exemption provided by this paragraph shall not apply with respect to a request under subsection (c) from a cable operator providing video programming, and seeking to provide any telecommunications service, in the area in which the rural telephone company provides video programming. The limitation contained in this subparagraph shall not apply to a rural telephone company that is providing video programming on the date of enactment of the Telecommunications Act of 1996.

"(2) SUSPENSIONS AND MODIFICATIONS FOR RURAL CARRIERS.—A local exchange carrier with fewer than 2 percent of the Nation's subscriber lines installed in the aggregate nationwide may petition a State commission for a suspension or modification of the application of a requirement or requirements of subsection (b) or (c) to telephone exchange service facilities specified in such petition. The State commission shall grant such petition to the extent that, and for such duration as, the State commission determines that such suspension or modification—

"(A) is necessary—

"(i) to avoid a significant adverse economic impact on users of telecommunications services generally;

"(ii) to avoid imposing a requirement that is unduly economically burdensome; or

"(iii) to avoid imposing a requirement that is technically infeasible; and

"(B) is consistent with the public interest, convenience, and necessity.

The State commission shall act upon any petition filed under this paragraph within 180 days after receiving such petition. Pending such action, the State commission may suspend enforcement of the requirement or requirements to which the petition applies with respect to the petitioning carrier or carriers.

"(g) CONTINUED ENFORCEMENT OF EXCHANGE ACCESS AND INTERCONNECTION REQUIREMENTS.—On and after the date of enactment of the Telecommunications Act of 1996, each local exchange carrier, to the extent that it provides wireline services, shall provide exchange access, information access, and exchange services for such access to interexchange carriers and information service providers in accordance with the same equal access and nondiscriminatory interconnection restrictions and obligations (including receipt of compensation) that apply to such carrier on the date immediately preceding the date of enactment of the Telecommunications Act of 1996 under any court order, consent decree, or regulation, order, or policy of the Commission, until such restrictions and obligations are explicitly superseded by regulations prescribed by the Commission after such date of enactment. During the period beginning on such date of enactment and until such restrictions and obligations are so superseded, such restrictions and obligations shall be enforceable in the same manner as regulations of the Commission.

"(h) DEFINITION OF INCUMBENT LOCAL EXCHANGE CARRIER.—

"(1) DEFINITION.—For purposes of this section, the term 'incumbent local exchange carrier' means, with respect to an area, the local exchange carrier that—

"(A) on the date of enactment of the Telecommunications Act of 1996, provided telephone exchange service in such area; and

"(B)(i) on such date of enactment, was deemed to be a member of the exchange carrier association pursuant to section 69.601(b) of the Commission's regulations (47 C.F.R. 69.601(b)); or

"(ii) is a person or entity that, on or after such date of enactment, became a successor or assign of a member described in clause (i).

"(2) TREATMENT OF COMPARABLE CARRIERS AS INCUMBENTS.—The Commission may, by rule, provide for the treatment of a local exchange carrier (or class or category thereof) as an incumbent local exchange carrier for purposes of this section if—

"(A) such carrier occupies a position in the market for telephone exchange service within an area that is comparable to the position occupied by a carrier described in paragraph (1);

"(B) such carrier has substantially replaced an incumbent local exchange carrier described in paragraph (1); and

"(C) such treatment is consistent with the public interest, convenience, and necessity and the purposes of this section.

"(i) SAVINGS PROVISION.—Nothing in this section shall be construed to limit or otherwise affect the Commission's authority under section 201.

"SEC. 252. PROCEDURES FOR NEGOTIATION, ARBITRATION, AND APPROVAL OF AGREEMENTS.

"(a) AGREEMENTS ARRIVED AT THROUGH NEGOTIATION.—

"(1) VOLUNTARY NEGOTIATIONS.—Upon receiving a request for interconnection, services, or network elements pursuant to section 251, an incumbent local exchange carrier may negotiate and enter into a binding agreement with the requesting telecommunications carrier or carriers without regard to the standards set forth in subsections (b) and (c) of section 251. The agreement shall include a detailed schedule of itemized charges for interconnection and each service or network element included in the agreement. The agreement, including any interconnection agreement negotiated before the date of enactment of the Telecommunications Act of 1996, shall be submitted to the State commission under subsection (e) of this section.

"(2) MEDIATION.—Any party negotiating an agreement under this section may, at any point in the negotiation, ask a State commission to participate in the negotiation and to mediate any differences arising in the course of the negotiation.

"(b) AGREEMENTS ARRIVED AT THROUGH COMPULSORY ARBITRATION.—

"(1) ARBITRATION.—During the period from the 135th to the 160th day (inclusive) after the date on which an incumbent local exchange carrier receives a request for negotiation under this section, the carrier or any other party to the negotiation may petition a State commission to arbitrate any open issues.

"(2) DUTY OF PETITIONER.—

"(A) A party that petitions a State commission under paragraph (1) shall, at the same time as it submits the petition, provide the State commission all relevant documentation concerning—

"(i) the unresolved issues;

"(ii) the position of each of the parties with respect to those issues; and

"(iii) any other issue discussed and resolved by the parties.

"(B) A party petitioning a State commission under paragraph (1) shall provide a copy of the petition and any documentation to the other party or parties not later than the day on which the State commission receives the petition.

"(3) OPPORTUNITY TO RESPOND.—A non-petitioning party to a negotiation under this section may respond to the other party's petition and provide such additional information as it wishes within 25 days after the State commission receives the petition.

"(4) ACTION BY STATE COMMISSION.—

"(A) The State commission shall limit its consideration of any petition under paragraph (1) (and any response thereto) to the issues set forth in the petition and in the response, if any, filed under paragraph (3).

"(B) The State commission may require the petitioning party and the responding party to provide such information as may be necessary for the State commission to reach a de-

cision on the unresolved issues. If any party refuses or fails unreasonably to respond on a timely basis to any reasonable request from the State commission, then the State commission may proceed on the basis of the best information available to it from whatever source derived.

"(C) The State commission shall resolve each issue set forth in the petition and the response, if any, by imposing appropriate conditions as required to implement subsection (c) upon the parties to the agreement, and shall conclude the resolution of any unresolved issues not later than 9 months after the date on which the local exchange carrier received the request under this section.

"(5) **REFUSAL TO NEGOTIATE.**—The refusal of any other party to the negotiation to participate further in the negotiations, to cooperate with the State commission in carrying out its function as an arbitrator, or to continue to negotiate in good faith in the presence, or with the assistance, of the State commission shall be considered a failure to negotiate in good faith.

"(c) **STANDARDS FOR ARBITRATION.**—In resolving by arbitration under subsection (b) any open issues and imposing conditions upon the parties to the agreement, a State commission shall—

"(1) ensure that such resolution and conditions meet the requirements of section 251, including the regulations prescribed by the Commission pursuant to section 251;

"(2) establish any rates for interconnection, services, or network elements according to subsection (d); and

"(3) provide a schedule for implementation of the terms and conditions by the parties to the agreement.

"(d) **PRICING STANDARDS.**—

"(1) **INTERCONNECTION AND NETWORK ELEMENT CHARGES.**—Determinations by a State commission of the just and reasonable rate for the interconnection of facilities and equipment for purposes of subsection (c)(2) of section 251, and the just and reasonable rate for network elements for purposes of subsection (c)(3) of such section—

"(A) shall be—

"(i) based on the cost (determined without reference to a rate-of-return or other rate-based proceeding) of providing the interconnection or network element (whichever is applicable), and

"(ii) nondiscriminatory, and

"(B) may include a reasonable profit.

"(2) **CHARGES FOR TRANSPORT AND TERMINATION OF TRAFFIC.**—

"(A) **IN GENERAL.**—For the purposes of compliance by an incumbent local exchange carrier with section 251(b)(5), a State commission shall not consider the terms and conditions for reciprocal compensation to be just and reasonable unless—

"(i) such terms and conditions provide for the mutual and reciprocal recovery by each carrier of costs associated with the transport and termination on each carrier's network facilities of calls that originate on the network facilities of the other carrier; and

"(ii) such terms and conditions determine such costs on the basis of a reasonable approximation of the additional costs of terminating such calls.

"(B) RULES OF CONSTRUCTION.—This paragraph shall not be construed—

"(i) to preclude arrangements that afford the mutual recovery of costs through the offsetting of reciprocal obligations, including arrangements that waive mutual recovery (such as bill-and-keep arrangements); or

"(ii) to authorize the Commission or any State commission to engage in any rate regulation proceeding to establish with particularity the additional costs of transporting or terminating calls, or to require carriers to maintain records with respect to the additional costs of such calls.

"(3) WHOLESALE PRICES FOR TELECOMMUNICATIONS SERVICES.—For the purposes of section 251(c)(4), a State commission shall determine wholesale rates on the basis of retail rates charged to subscribers for the telecommunications service requested, excluding the portion thereof attributable to any marketing, billing, collection, and other costs that will be avoided by the local exchange carrier.

"(e) APPROVAL BY STATE COMMISSION.—

"(1) APPROVAL REQUIRED.—Any interconnection agreement adopted by negotiation or arbitration shall be submitted for approval to the State commission. A State commission to which an agreement is submitted shall approve or reject the agreement, with written findings as to any deficiencies.

"(2) GROUNDS FOR REJECTION.—The State commission may only reject—

"(A) an agreement (or any portion thereof) adopted by negotiation under subsection (a) if it finds that—

"(i) the agreement (or portion thereof) discriminates against a telecommunications carrier not a party to the agreement; or

"(ii) the implementation of such agreement or portion is not consistent with the public interest, convenience, and necessity; or

"(B) an agreement (or any portion thereof) adopted by arbitration under subsection (b) if it finds that the agreement does not meet the requirements of section 251, including the regulations prescribed by the Commission pursuant to section 251, or the standards set forth in subsection (d) of this section.

"(3) PRESERVATION OF AUTHORITY.—Notwithstanding paragraph (2), but subject to section 253, nothing in this section shall prohibit a State commission from establishing or enforcing other requirements of State law in its review of an agreement, including requiring compliance with intrastate telecommunications service quality standards or requirements.

"(4) SCHEDULE FOR DECISION.—If the State commission does not act to approve or reject the agreement within 90 days after submission by the parties of an agreement adopted by ne-

gotiation under subsection (a), or within 30 days after submission by the parties of an agreement adopted by arbitration under subsection (b), the agreement shall be deemed approved. No State court shall have jurisdiction to review the action of a State commission in approving or rejecting an agreement under this section.

"(5) COMMISSION TO ACT IF STATE WILL NOT ACT.—If a State commission fails to act to carry out its responsibility under this section in any proceeding or other matter under this section, then the Commission shall issue an order preempting the State commission's jurisdiction of that proceeding or matter within 90 days after being notified (or taking notice) of such failure, and shall assume the responsibility of the State commission under this section with respect to the proceeding or matter and act for the State commission.

"(6) REVIEW OF STATE COMMISSION ACTIONS.—In a case in which a State fails to act as described in paragraph (5), the proceeding by the Commission under such paragraph and any judicial review of the Commission's actions shall be the exclusive remedies for a State commission's failure to act. In any case in which a State commission makes a determination under this section, any party aggrieved by such determination may bring an action in an appropriate Federal district court to determine whether the agreement or statement meets the requirements of section 251 and this section.

"(f) STATEMENTS OF GENERALLY AVAILABLE TERMS.—

"(1) IN GENERAL.—A Bell operating company may prepare and file with a State commission a statement of the terms and conditions that such company generally offers within that State to comply with the requirements of section 251 and the regulations thereunder and the standards applicable under this section.

"(2) STATE COMMISSION REVIEW.—A State commission may not approve such statement unless such statement complies with subsection (d) of this section and section 251 and the regulations thereunder. Except as provided in section 253, nothing in this section shall prohibit a State commission from establishing or enforcing other requirements of State law in its review of such statement, including requiring compliance with intrastate telecommunications service quality standards or requirements.

"(3) SCHEDULE FOR REVIEW.—The State commission to which a statement is submitted shall, not later than 60 days after the date of such submission—

"(A) complete the review of such statement under paragraph (2) (including any reconsideration thereof), unless the submitting carrier agrees to an extension of the period for such review; or

"(B) permit such statement to take effect.

"(4) AUTHORITY TO CONTINUE REVIEW.—Paragraph (3) shall not preclude the State commission from continuing to review a statement that has been permitted to take effect under subparagraph (B) of such paragraph or from approving or disapproving such statement under paragraph (2).

"(5) DUTY TO NEGOTIATE NOT AFFECTED.—The submission or approval of a statement under this subsection shall not relieve a Bell operating company of its duty to negotiate the terms and conditions of an agreement under section 251.

"(g) CONSOLIDATION OF STATE PROCEEDINGS.—Where not inconsistent with the requirements of this Act, a State commission may, to the extent practical, consolidate proceedings under sections 214(e), 251(f), 253, and this section in order to reduce administrative burdens on telecommunications carriers, other parties to the proceedings, and the State commission in carrying out its responsibilities under this Act.

"(h) FILING REQUIRED.—A State commission shall make a copy of each agreement approved under subsection (e) and each statement approved under subsection (f) available for public inspection and copying within 10 days after the agreement or statement is approved. The State commission may charge a reasonable and non-discriminatory fee to the parties to the agreement or to the party filing the statement to cover the costs of approving and filing such agreement or statement.

"(i) AVAILABILITY TO OTHER TELECOMMUNICATIONS CARRIERS.—A local exchange carrier shall make available any interconnection, service, or network element provided under an agreement approved under this section to which it is a party to any other requesting telecommunications carrier upon the same terms and conditions as those provided in the agreement.

"(j) DEFINITION OF INCUMBENT LOCAL EXCHANGE CARRIER.—For purposes of this section, the term 'incumbent local exchange carrier' has the meaning provided in section 251(h).

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"SEC. 254. UNIVERSAL SERVICE.

"(a) PROCEDURES TO REVIEW UNIVERSAL SERVICE REQUIREMENTS.—

"(1) FEDERAL-STATE JOINT BOARD ON UNIVERSAL SERVICE.—Within one month after the date of enactment of the Telecommunications Act of 1996, the Commission shall institute and refer to a Federal-State Joint Board under section 410(c) a proceeding to recommend changes to any of its regulations in order to implement sections 214(e) and this section, including the definition of the services that are supported by Federal universal service support mechanisms and a specific timetable for completion of such recommendations. In addition to the members of the Joint Board required under section 410(c), one member of such Joint Board shall be a State-appointed utility consumer advocate nominated by a national organization of State utility consumer advocates. The Joint Board shall, after notice and opportunity for public comment, make its recommendations to the Commission 9 months after the date of enactment of the Telecommunications Act of 1996.

"(2) COMMISSION ACTION.—The Commission shall initiate a single proceeding to implement the recommendations from the Joint Board required by paragraph (1) and shall complete such proceeding within 15 months after the date of enactment of the Telecommunications Act of 1996. The rules established by such proceeding shall include a definition of the services that are supported by Federal universal service support mechanisms and a specific timetable for implementation. Thereafter, the Commission shall complete any proceeding to implement subsequent recommendations from any Joint Board on universal service within one year after receiving such recommendations.

"(b) UNIVERSAL SERVICE PRINCIPLES.—The Joint Board and the Commission shall base policies for the preservation and advancement of universal service on the following principles:

"(1) QUALITY AND RATES.—Quality services should be available at just, reasonable, and affordable rates.

"(2) ACCESS TO ADVANCED SERVICES.—Access to advanced telecommunications and information services should be provided in all regions of the Nation.

"(3) ACCESS IN RURAL AND HIGH COST AREAS.—Consumers in all regions of the Nation, including low-income consumers and those in rural, insular, and high cost areas, should have access to telecommunications and information services, including interexchange services and advanced telecommunications and information services, that are reasonably comparable to those services provided in urban areas and that are available at rates that are reasonably comparable to rates charged for similar services in urban areas.

"(4) EQUITABLE AND NONDISCRIMINATORY CONTRIBUTIONS.—All providers of telecommunications services should make an equitable and nondiscriminatory contribution to the preservation and advancement of universal service.

"(5) SPECIFIC AND PREDICTABLE SUPPORT MECHANISMS.—There should be specific, predictable and sufficient Federal and State mechanisms to preserve and advance universal service.

"(6) ACCESS TO ADVANCED TELECOMMUNICATIONS SERVICES FOR SCHOOLS, HEALTH CARE, AND LIBRARIES.—Elementary and secondary schools and classrooms, health care providers, and libraries should have access to advanced telecommunications services as described in subsection (h).

"(7) ADDITIONAL PRINCIPLES.—Such other principles as the Joint Board and the Commission determine are necessary and appropriate for the protection of the public interest, convenience, and necessity and are consistent with this Act.

"(c) DEFINITION.—

"(1) IN GENERAL.—Universal service is an evolving level of telecommunications services that the Commission shall establish periodically under this section, taking into account advances in telecommunications and information technologies and services. The Joint Board in recommending, and the Commission in establishing, the definition of the services that are supported by Federal universal service support mechanisms shall consider the extent to which such telecommunications services—

"(A) are essential to education, public health, or public safety;

"(B) have, through the operation of market choices by customers, been subscribed to by a substantial majority of residential customers;

"(C) are being deployed in public telecommunications networks by telecommunications carriers; and

"(D) are consistent with the public interest, convenience, and necessity.

"(2) **ALTERATIONS AND MODIFICATIONS.**—The Joint Board may, from time to time, recommend to the Commission modifications in the definition of the services that are supported by Federal universal service support mechanisms.

"(3) **SPECIAL SERVICES.**—In addition to the services included in the definition of universal service under paragraph (1), the Commission may designate additional services for such support mechanisms for schools, libraries, and health care providers for the purposes of subsection (h).

"(d) **TELECOMMUNICATIONS CARRIER CONTRIBUTION.**—Every telecommunications carrier that provides interstate telecommunications services shall contribute, on an equitable and nondiscriminatory basis, to the specific, predictable, and sufficient mechanisms established by the Commission to preserve and advance universal service. The Commission may exempt a carrier or class of carriers from this requirement if the carrier's telecommunications activities are limited to such an extent that the level of such carrier's contribution to the preservation and advancement of universal service would be de minimis. Any other provider of interstate telecommunications may be required to contribute to the preservation and advancement of universal service if the public interest so requires.

"(e) **UNIVERSAL SERVICE SUPPORT.**—After the date on which Commission regulations implementing this section take effect, only an eligible telecommunications carrier designated under section 214(e) shall be eligible to receive specific Federal universal service support. A carrier that receives such support shall use that support only for the provision, maintenance, and upgrading of facilities and services for which the support is intended. Any such support should be explicit and sufficient to achieve the purposes of this section.

"(f) **STATE AUTHORITY.**—A State may adopt regulations not inconsistent with the Commission's rules to preserve and advance universal service. Every telecommunications carrier that provides intrastate telecommunications services shall contribute, on an equitable and nondiscriminatory basis, in a manner determined by the State to the preservation and advancement of universal service in that State. A State may adopt regulations to provide for additional definitions and standards to preserve and advance universal service within that State only to the extent that such regulations adopt additional specific, predictable, and sufficient mechanisms to support such definitions or standards that do not rely on or burden Federal universal service support mechanisms.

"(g) **INTEREXCHANGE AND INTERSTATE SERVICES.**—Within 6 months after the date of enactment of the Telecommunications Act of 1996, the Commission shall adopt rules to require that the rates charged by providers of interexchange telecommunications services to subscribers in rural and high cost areas shall be no higher than the rates charged by each such provider to its subscribers in urban areas. Such rules shall also require that a provider of interstate interexchange telecommunications services shall provide such services to its subscribers in each State at rates no higher than the rates charged to its subscribers in any other State.

"(h) TELECOMMUNICATIONS SERVICES FOR CERTAIN PROVIDERS.—

"(1) IN GENERAL.—

"(A) HEALTH CARE PROVIDERS FOR RURAL AREAS.—A telecommunications carrier shall, upon receiving a bona fide request, provide telecommunications services which are necessary for the provision of health care services in a State, including instruction relating to such services, to any public or nonprofit health care provider that serves persons who reside in rural areas in that State at rates that are reasonably comparable to rates charged for similar services in urban areas in that State. A telecommunications carrier providing service under this paragraph shall be entitled to have an amount equal to the difference, if any, between the rates for services provided to health care providers for rural areas in a State and the rates for similar services provided to other customers in comparable rural areas in that State treated as a service obligation as a part of its obligation to participate in the mechanisms to preserve and advance universal service.

"(B) EDUCATIONAL PROVIDERS AND LIBRARIES.—All telecommunications carriers serving a geographic area shall, upon a bona fide request for any of its services that are within the definition of universal service under subsection (c)(3), provide such services to elementary schools, secondary schools, and libraries for educational purposes at rates less than the amounts charged for similar services to other parties. The discount shall be an amount that the Commission, with respect to interstate services, and the States, with respect to intrastate services, determine is appropriate and necessary to ensure affordable access to and use of such services by such entities. A telecommunications carrier providing service under this paragraph shall—

"(i) have an amount equal to the amount of the discount treated as an offset to its obligation to contribute to the mechanisms to preserve and advance universal service, or

"(ii) notwithstanding the provisions of subsection (e) of this section, receive reimbursement utilizing the support mechanisms to preserve and advance universal service.

"(2) ADVANCED SERVICES.—The Commission shall establish competitively neutral rules—

"(A) to enhance, to the extent technically feasible and economically reasonable, access to advanced telecommunications and information services for all public and nonprofit elementary and secondary school classrooms, health care providers, and libraries; and

"(B) to define the circumstances under which a telecommunications carrier may be required to connect its network to such public institutional telecommunications users.

"(3) TERMS AND CONDITIONS.—Telecommunications services and network capacity provided to a public institutional telecommunications user under this subsection may not be sold, re-sold, or otherwise transferred by such user in consideration for money or any other thing of value.

"(4) **ELIGIBILITY OF USERS.**—No entity listed in this subsection shall be entitled to preferential rates or treatment as required by this subsection, if such entity operates as a for-profit business, is a school described in paragraph (5)(A) with an endowment of more than \$50,000,000, or is a library not eligible for participation in State-based plans for funds under title III of the Library Services and Construction Act (20 U.S.C. 335c et seq.).

"(5) **DEFINITIONS.**—For purposes of this subsection:

"(A) **ELEMENTARY AND SECONDARY SCHOOLS.**—The term 'elementary and secondary schools' means elementary schools and secondary schools, as defined in paragraphs (14) and (25), respectively, of section 14101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 8801).

"(B) **HEALTH CARE PROVIDER.**—The term 'health care provider' means—

"(i) post-secondary educational institutions offering health care instruction, teaching hospitals, and medical schools;

"(ii) community health centers or health centers providing health care to migrants;

"(iii) local health departments or agencies;

"(iv) community mental health centers;

"(v) not-for-profit hospitals;

"(vi) rural health clinics; and

"(vii) consortia of health care providers consisting of one or more entities described in clauses (i) through (vi).

"(C) **PUBLIC INSTITUTIONAL TELECOMMUNICATIONS USER.**—The term 'public institutional telecommunications user' means an elementary or secondary school, a library, or a health care provider as those terms are defined in this paragraph.

"(i) **CONSUMER PROTECTION.**—The Commission and the States should ensure that universal service is available at rates that are just, reasonable, and affordable.

"(j) **LIFELINE ASSISTANCE.**—Nothing in this section shall affect the collection, distribution, or administration of the Lifeline Assistance Program provided for by the Commission under regulations set forth in section 69.117 of title 47, Code of Federal Regulations, and other related sections of such title.

"(k) **SUBSIDY OF COMPETITIVE SERVICES PROHIBITED.**—A telecommunications carrier may not use services that are not competitive to subsidize services that are subject to competition. The Commission, with respect to interstate services, and the States, with respect to intrastate services, shall establish any necessary cost allocation rules, accounting safeguards, and guidelines to ensure that services included in the definition of universal service bear no more than a reasonable share of the joint and common costs of facilities used to provide those services.

* * *

SEC. 706. ADVANCED TELECOMMUNICATIONS INCENTIVES.

(a) **IN GENERAL.**—The Commission and each State commission with regulatory jurisdiction over telecommunications services shall encourage the deployment on a reasonable and timely basis of advanced telecommunications capability to all Americans (including, in particular, elementary and secondary schools and classrooms) by utilizing, in a manner consistent with the public interest, convenience, and necessity, price cap regulation, regulatory forbearance, measures that promote competition in the local telecommunications market, or other regulating methods that remove barriers to infrastructure investment.

(b) **INQUIRY.**—The Commission shall, within 30 months after the date of enactment of this Act, and regularly thereafter, initiate a notice of inquiry concerning the availability of advanced telecommunications capability to all Americans (including, in particular, elementary and secondary schools and classrooms) and shall complete the inquiry within 180 days after its initiation. In the inquiry, the Commission shall determine whether advanced telecommunications capability is being deployed to all Americans in a reasonable and timely fashion. If the Commission's determination is negative, it shall take immediate action to accelerate deployment of such capability by removing barriers to infrastructure investment and by promoting competition in the telecommunications market.

(c) **DEFINITIONS.**—For purposes of this subsection:

(1) **ADVANCED TELECOMMUNICATIONS CAPABILITY.**—The term "advanced telecommunications capability" is defined, without regard to any transmission media or technology, as high-speed, switched, broadband telecommunications capability that enables users to originate and receive high-quality voice, data, graphics, and video telecommunications using any technology.

(2) **ELEMENTARY AND SECONDARY SCHOOLS.**—The term "elementary and secondary schools" means elementary and secondary schools, as defined in paragraphs (14) and (25), respectively, of section 14101 of the Elementary and Secondary Education Act of 1965 (20 U.S.C. 8801).

* * *

SEC. 708. NATIONAL EDUCATION TECHNOLOGY FUNDING CORPORATION.

(a) FINDINGS; PURPOSE.—

(1) FINDINGS.—*The Congress finds as follows:*

(A) CORPORATION.—*There has been established in the District of Columbia a private, nonprofit corporation known as the National Education Technology Funding Corporation which is not an agency or independent establishment of the Federal Government.*

(B) BOARD OF DIRECTORS.—*The Corporation is governed by a Board of Directors, as prescribed in the Corporation's articles of incorporation, consisting of 15 members, of which—*

(i) five members are representative of public agencies representative of schools and public libraries;

(ii) five members are representative of State government, including persons knowledgeable about State finance, technology and education; and

(iii) five members are representative of the private sector, with expertise in network technology, finance and management.

(C) CORPORATE PURPOSES.—*The purposes of the Corporation, as set forth in its articles of incorporation, are—*

(i) to leverage resources and stimulate private investment in education technology infrastructure;

(ii) to designate State education technology agencies to receive loans, grants or other forms of assistance from the Corporation;

(iii) to establish criteria for encouraging States to—

(I) create, maintain, utilize and upgrade interactive high capacity networks capable of providing audio, visual and data communications for elementary schools, secondary schools and public libraries;

(II) distribute resources to assure equitable aid to all elementary schools and secondary schools in the State and achieve universal access to network technology; and

(III) upgrade the delivery and development of learning through innovative technology-based instructional tools and applications;

(iv) to provide loans, grants and other forms of assistance to State education technology agencies, with due regard for providing a fair balance among types of school districts and public libraries assisted and the disparate needs of such districts and libraries;

(v) to leverage resources to provide maximum aid to elementary schools, secondary schools and public libraries; and

(vi) to encourage the development of education telecommunications and information technologies through public-private ventures, by serving as a clearinghouse for information on new education technologies, and by providing technical assistance, including assistance to States, if needed, to establish State education technology agencies.

(2) **PURPOSE.**—The purpose of this section is to recognize the Corporation as a nonprofit corporation operating under the laws of the District of Columbia, and to provide authority for Federal departments and agencies to provide assistance to the Corporation.

(b) **DEFINITIONS.**—For the purpose of this section—

(1) the term “Corporation” means the National Education Technology Funding Corporation described in subsection (a)(1)(A);

(2) the terms “elementary school” and “secondary school” have the same meanings given such terms in section 14101 of the Elementary and Secondary Education Act of 1965; and

(3) the term “public library” has the same meaning given such term in section 3 of the Library Services and Construction Act.

(c) **ASSISTANCE FOR EDUCATION TECHNOLOGY PURPOSES.**—

(1) **RECEIPT BY CORPORATION.**—Notwithstanding any other provision of law, in order to carry out the corporate purposes described in subsection (a)(1)(C), the Corporation shall be eligible to receive discretionary grants, contracts, gifts, contributions, or technical assistance from any Federal department or agency, to the extent otherwise permitted by law.

(2) **AGREEMENT.**—In order to receive any assistance described in paragraph (1) the Corporation shall enter into an agreement with the Federal department or agency providing such assistance, under which the Corporation agrees—

(A) to use such assistance to provide funding and technical assistance only for activities which the Board of Directors of the Corporation determines are consistent with the corporate purposes described in subsection (a)(1)(C);

(B) to review the activities of State education technology agencies and other entities receiving assistance from the Corporation to assure that the corporate purposes described in subsection (a)(1)(C) are carried out;

(C) that no part of the assets of the Corporation shall accrue to the benefit of any member of the Board of Directors of the Corporation, any officer or employee of the Corporation, or any other individual, except as salary or reasonable compensation for services;

(D) that the Board of Directors of the Corporation will adopt policies and procedures to prevent conflicts of interest;

(E) to maintain a Board of Directors of the Corporation consistent with subsection (a)(1)(B);

(F) that the Corporation, and any entity receiving the assistance from the Corporation, are subject to the appropriate oversight procedures of the Congress; and

(G) to comply with—

(i) the audit requirements described in subsection (d); and

(ii) the reporting and testimony requirements described in subsection (e).

(3) **CONSTRUCTION.**—Nothing in this section shall be construed to establish the Corporation as an agency or independent establishment of the Federal Government, or to establish the members of the Board of Directors of the Corporation, or the officers and employees of the Corporation, as officers or employees of the Federal Government.

(d) **AUDITS.**—

(1) **AUDITS BY INDEPENDENT CERTIFIED PUBLIC ACCOUNTANTS.**—

(A) **IN GENERAL.**—The Corporation's financial statements shall be audited annually in accordance with generally accepted auditing standards by independent certified public accountants who are certified by a regulatory authority of a State or other political subdivision of the United States. The audits shall be conducted at the place or places where the accounts of the Corporation are normally kept. All books, accounts, financial records, reports, files, and all other papers, things, or property belonging to or in use by the Corporation and necessary to facilitate the audit shall be made available to the person or persons conducting the audits, and full facilities for verifying transactions with the balances or securities held by depositories, fiscal agents, and custodians shall be afforded to such person or persons.

(B) **REPORTING REQUIREMENTS.**—The report of each annual audit described in subparagraph (A) shall be included in the annual report required by subsection (e)(1).

(2) **RECORDKEEPING REQUIREMENTS; AUDIT AND EXAMINATION OF BOOKS.**—

(A) **RECORDKEEPING REQUIREMENTS.**—The Corporation shall ensure that each recipient of assistance from the Corporation keeps—

(i) separate accounts with respect to such assistance;

(ii) such records as may be reasonably necessary to fully disclose—

(I) the amount and the disposition by such recipient of the proceeds of such assistance;

(II) the total cost of the project or undertaking in connection with which such assistance is given or used; and

(III) the amount and nature of that portion of the cost of the project or undertaking supplied by other sources; and

(iii) such other records as will facilitate an effective audit.

(B) **AUDIT AND EXAMINATION OF BOOKS.**—The Corporation shall ensure that the Corporation, or any of the Corporation's duly authorized representatives, shall have access for the purpose of audit and examination to any books, documents, papers, and records of any recipient of assistance from the Corporation that are pertinent to such assistance. Representatives of the Comptroller General shall also have such access for such purpose.

(e) ANNUAL REPORT; TESTIMONY TO THE CONGRESS.—

(1) ANNUAL REPORT.—Not later than April 30 of each year, the Corporation shall publish an annual report for the preceding fiscal year and submit that report to the President and the Congress. The report shall include a comprehensive and detailed evaluation of the Corporation's operations, activities, financial condition, and accomplishments under this section and may include such recommendations as the Corporation deems appropriate.

(2) TESTIMONY BEFORE CONGRESS.—The members of the Board of Directors, and officers, of the Corporation shall be available to testify before appropriate committees of the Congress with respect to the report described in paragraph (1), the report of any audit made by the Comptroller General pursuant to this section, or any other matter which any such committee may determine appropriate.

Appendix 4

Conference Participants

Eleventh Annual Aspen Institute Conference on Telecommunications Policy

Mr. Andrew Blau
Director, Communications Policy
Program
Benton Foundation

Mr. Ron Cross
Director, Regulatory Analysis
Programs
NORTEL

Dr. Robert Entman
Department of Communications
North Carolina State University

Mr. Charles M. Firestone
Director
Communications and Society
Program
The Aspen Institute

Ms. Brenda Fox
Vice President, Federal Relations
Continental Cablevision

Prof. Alessandro Frova
Bocconi University
Milan, Italy

Ms. Amy Garmer
Senior Program Associate
Communications and Society
Program
The Aspen Institute

Mr. Henry Geller
Communications Fellow
The Markle Foundation

Mr. Frank Gumper
Vice President - Federal Regulatory
Planning
NYNEX

Dr. Heather Hudson
Director, Telecommunications
Management - Policy Program
McLaren School of Business
University of San Francisco

Mr. Reed Hundt
Chairman
Federal Communications
Commission

Ms. Julia Johnson
Commissioner
Florida Public Service Commission

Implementing Universal Service After the 1996 Telecommunications Act

Mr. Spencer Kaitz

President
California Cable Television
Association

Dr. Robert Pepper

Chief, Office of Plans and Policy
Federal Communications
Commission

Mr. Gene Kimmelman

Co-Director
Consumers Union

Mr. Jonathan Sallet

Chief Policy Counsel
MCI Communications Corporation

Ms. Susan Littlefield

Cable Regulatory Administration
City of St. Louis, MO

Ms. Laska Schoenfelder

Commissioner
Public Utilities Commission
State of South Dakota

Mr. Joel Lubin

Regulatory Vice President
AT&T

Dr. Gail Garfield Schwartz

Vice President, Public Policy and
Government Affairs
TCG, Teleport Communications Group

Ms. Sheila Mahony

Senior Vice President of
Communications and Public
Affairs
Cablevision Systems Corporation

Mr. Brad Stillman

Telecommunications Policy Director
Consumer Federation of America

Mr. Scott McClellan

Vice President, Public Policy and
External Affairs
US West, Inc.

Mr. Lawrence Strickling

Vice President, Public Policy
Ameritech

Ms. Susan Ness

Commissioner
Federal Communications
Commission

Mr. Adam Thierer

Heritage Foundation

Dr. Eli Noam

Professor of Finance and Economics
Columbia Institute for Tele-
Information
Graduate School of Business
Columbia University

Mr. Albert Vann

Member, New York State Assembly
Chairman, Telecommunications and
Energy Committee
National Black Caucus of State
Legislators

Mr. Edward D. Young, III

Vice President-External Affairs and
Associate General Counsel
Bell Atlantic